

RADIO FIX AND HOLDING DATA RECORD

NAME: ASHLN

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391514.68N/0781835.11W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETED TRSTN (RNAV) AT KEZF, KNYG, KRMN, KHEF, KCJR, KHWY.
- FIX USE: ADDED TRSTN (RNAV) AT 2W2.
- REQUIRED CHARTING: DELETED MILITARY STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: BRILA

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392353.04N/0770831.89W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX RESTRICTIONS:

MCA T356 5300 SOUTHEAST BOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ATC REQUEST SECTIONAL CHARTING.

FIX USE:

USE TYPE
EN ROUTE

USE TITLE
T356

STAR

TRSTN (RNAV)

STAR

TRSTN (RNAV)

FAC

PAT

AIRPORT IDENT

CITY

STATE

(US)

MD (US)

MD (US)

REQUIRED CHARTING: SECTIONAL, STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: ADDED TRSTN (RNAV) TO FIX MAKE UP FOR W50, KGAI.

- REQUIRED CHARTING: ADDED STAR.

- DELETE AIRSPACE DOCKET NUMBER.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by

DONALD H LANIER

Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CABRL

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 374849.71N/0774408.67W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	SW		WP	214.72	034.72	R	10 10000	19000	15 18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (51-000934)	373015.00N/0774151.00W	1511	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)		1	KHEF	WASHINGTON	DC (US)
STAR	TRSTN (RNAV)		1	KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)		1	KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)		1	KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)		1	W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)		1	2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)		1	KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)		1	KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)		1	KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)		1	KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)		1	KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)		1	KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)		1	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/26/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CPTAL

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393216.02N/0774155.65W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T358					(US)
EN ROUTE	T477					(US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)

REQUIRED CHARTING: STAR, AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

- FIX USE: ADDED TRSTN (RNAV) TO FIX MAKE UP FOR KDMW, 2W2, W50, KGAI.
- REQUIRED CHARTING: ADDED STAR.
- DELETE AIRSPACE DOCKET NUMBER.

12/12/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/05/24.

1. REMARKS: DELETED ATC REQUESTED SECTIONAL CHARTING.

2. REQUIRED CHARTING: DELETED SECTIONAL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 01/16/2025

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by

DONALD H LANIER

Dec 12, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CRAIN

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391914.47N/0773501.25W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: ADDED TRSTN (RNAV) TO FIX MAKE UP FOR KMRB, KFDK, KFRR, KJYO, KHGR, KOKV.
- REMARKS: DELETE "FIX NAME RETAINED PER ATC REQUEST FOR OPERATIONAL NECESSITY".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: DORRN

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 373154.04N/0775337.62W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN MAX
1	SW		WP	214.31	034.31	L	10	22000	45000	19 30

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

ATC REQUESTED 10 NM LEG LENGTHS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	CAVLR (RNAV)		1	KIAD	WASHINGTON	DC (US)
STAR	WIGOL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETED TRSTN (RNAV) AT KEZF, KNYG, KRMN.
- FIX USE: ADDED TRSTN (RNAV) AT 2W2.
- REQUIRED CHARTING: DELETED MILITARY STAR, ADDED ENROUTE/CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AVJ-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EZZZZ

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392254.31N/0775127.43W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KNYG	QUANTICO	VA (US)
STAR	TRSTN (RNAV)			KRMN	STAFFORD	VA (US)
STAR	TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, MILITARY STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/05/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/14/2013

OFFICE: AJV-352

NAME: DAVID SAUER

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PCT APP CON

OTHER:

Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAMRR

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393003.42N/0765610.84W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX RESTRICTIONS:

MCA T358 3200 NORTHWEST BOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

EN ROUTE

T287

EN ROUTE

T358

STAR

TRSTN (RNAV)

2W2

WESTMINSTER

(US)

STAR

TRSTN (RNAV)

KDMW

WESTMINSTER

(US)

MD (US)

MD (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

- FIX USE: ADDED TRSTN (RNAV) AT KDMW, 2W2.

- DELETED AIRSPACE DOCKET NUMBER.

- REMARKS: DELETED "NAMED CHANGED FROM MOYRR TO HAMRR".

12/12/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/05/24.

1. REQUIRED CHARTING: DELETED VFR TERMINAL AREA.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 01/16/2025

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by

DONALD H LANIER

Dec 12, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JOHOF

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 374849.12N/0774408.59W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SW		WP	213.75	033.75	R	10	10000	19000	15	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (51-000705)	373023.00N/0774202.00W	1539	3D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ATC REQUESTED 10NM LEG LENGTH, USED MIN TEMPLATE 15 TO PROTECT 10NM LEG LENGTH.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)		1	KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	TRSTN (RNAV)		1	KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)		1	KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)		1	KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)		1	W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)		1	KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)		1	KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)		1	KEZF	FREDERICKSBURG	VA (US)
STAR	TRSTN (RNAV)		1	KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)		1	KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)		1	KNYG	QUANTICO	VA (US)
STAR	TRSTN (RNAV)		1	KRMN	STAFFORD	VA (US)
STAR	TRSTN (RNAV)		1	KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)		1	KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)		1	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, MILITARY STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/05/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/14/2013

OFFICE: AJV-352

NAME: DAVID SAUER

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by

DONALD H LANIER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PCT APP CON

OTHER:

Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LORAA

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 372349.82N/0775842.98W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETED TRSTN (RNAV) AT KEZF, KNYG, KRMN.
- FIX USE: ADDED TRSTN (RNAV) AT 2W2.
- REQUIRED CHARTING: DELETED MILITARY STAR, ADDED ENROUTE LOW/HIGH AND CONTROLLER LOW/HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: MARTINSBURG VORTAC STATE: WV COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392308.06N/0775054.08W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	MARTINSBURG	MRB	VORTAC	L						45000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	MRB	VORTAC	109.00	289.00	L	1	3000 17500	8 15
2	E	MRB	VORTAC	110.00	290.00	L	1	3000 6000	4 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	392158.00N/0774216.00W	1676	2C
1	310	AAO	392700.50N/0773734.20W	1958	2C
2	200	AAO	392200.00N/0774215.00W	1729	4E
2	310	AAO	392200.00N/0774215.00W	1729	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.
PAT 2 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATIONS COMPLETED
FACILITY MAGVAR: 7W/1965

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	TAKE-OFF MINIMUMS			KFRR	FRONT ROYAL	VA (US)
DP	PTOMC (RNAV)			KJYO	LEESBURG	VA (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	TAKE-OFF MINIMUMS			KMRB	MARTINSBURG	WV (US)
EN ROUTE	J162					(US)
EN ROUTE	J6					(US)
EN ROUTE	T358					(US)
EN ROUTE	V143					(US)
EN ROUTE	V166					(US)
EN ROUTE	V3					(US)
EN ROUTE	V39					(US)
EN ROUTE	V44					(US)
EN ROUTE	V457					(US)
EN ROUTE	V501					(US)
EN ROUTE	V8					(US)
IAP	ILS OR LOC RWY 19L			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 1C			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19L (SA CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 1C (SA CAT II)			KIAD	WASHINGTON	DC (US)
IAP	LOC/DME RWY 23			KCBE	CUMBERLAND	MD (US)
IAP	RNAV (GPS) RWY 5			KFDK	FREDERICK	MD (US)
IAP	ILS OR LOC RWY 27			KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 9			KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 17			KJYO	LEESBURG	VA (US)
IAP	RNAV (GPS) RWY 17			KJYO	LEESBURG	VA (US)
IAP	VOR/DME-A		2	KOKV	WINCHESTER	VA (US)
IAP	RNAV (GPS) RWY 29			W35	BERKELEY SPRINGS	WV (US)
IAP	ILS OR LOC RWY 26		1	KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 26			KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 8			KMRB	MARTINSBURG	WV (US)
IAP	VOR-A		2	KMRB	MARTINSBURG	WV (US)
STAR	NUMMY			KDCA	WASHINGTON	DC (US)
STAR	DELRO			KIAD	WASHINGTON	DC (US)
STAR	DOCCS			KIAD	WASHINGTON	DC (US)
STAR	SELINGSGROVE			KIAD	WASHINGTON	DC (US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR	WESTMINSTER			KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER			KMTN	BALTIMORE	MD (US)

QUALITY
CHECKED

STAR	NUMMY	KADW	CAMP SPRINGS	MD (US)
STAR	TRSTN (RNAV)	KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)	KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)	KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)	W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)	2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)	KDMW	WESTMINSTER	MD (US)
STAR	NUMMY	KDAA	FORT BELVOIR	VA (US)
STAR	TRSTN (RNAV)	KFRR	FRONT ROYAL	VA (US)
STAR	DOCCS	KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)	KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 37 **DATE OF REVISION:** 12/26/2024

REASON FOR REVISION:
- FIX USE: ADDED TRSTN (RNAV) TO FIX MAKE UP FOR KDMW, 2W2, W50, KMRB, KFDK, KFRR, KJYO, KHGR, KGAI, KOKV.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A421	NAME: STEVEN DOUGHERTY
APPROVED BY:	DATE: 12/26/2024	OFFICE: AJV-A421	NAME: DAVID DANNER
SIGNATURE:		<i>Digitally signed by</i> DONALD H LANIER Dec 05, 2024	



RADIO FIX AND HOLDING DATA RECORD

NAME: MOTIE

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 381012.50N/0774623.97W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR
STAR
STAR

USE TITLE
TRSTN (RNAV)
TRSTN (RNAV)
TRSTN (RNAV)

FAC

PAT

AIRPORT IDENT
KHEF
KCJR
KHWY

CITY
DISTRICT OF COLUMBIA
CULPEPER
WARRENTON

STATE
DC (US)
VA (US)
VA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETED TRSTN (RNAV) AT KEZF, KNYG, KRMN, KFDK, KGAI, KHGR, W50, KDMW, KFRR, KJYO, KOKV, KMRB.
- REQUIRED CHARTING: DELETED MILITARY STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PERKN

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 373911.93N/0774928.81W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	CAVLR (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETED TRSTN (RNAV) AT KEZF, KNYG, KRMN.
- FIX USE: ADDED TRSTN (RNAV) AT 2W2.
- REQUIRED CHARTING: DELETED MILITARY STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by

DONALD H LANIER

Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RUANE

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392646.00N/0772226.34W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	MARTINSBURG	MRB	VORTAC	L	087.51	080.51	22.35	22.35		4000	17500
2	ARMEL	AML	VOR/DME	L	016.00	008.00	30.97	30.97		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MARTINSBURG (FAC 1) AND ARMEL (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V166	1, 2				(US)
EN ROUTE	V3	1, 2				(US)
EN ROUTE	V457	1, 2				(US)
IAP	RNAV (GPS) RWY 14			KGAI	GAITHERSBURG	MD (US)
STAR	WESTMINSTER	1, 2		KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER	1, 2		KMTN	BALTIMORE	MD (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETE ALL TRSTN (RNAV) STAR.
- REQUIRED CHARTING: DELETED MILITARY STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER

Dec 05, 2024



RADIO FIX AND HOLDING DATA RECORD

NAME: THHMP

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 372929.47N/0771908.75W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	S		WP	193.11	013.11	L		10	25000	45000	21	30

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

ATC REQUESTED 10 NM LEG LENGTH.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	T398					
STAR	TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	CAPSS (RNAV)			KDCA	WASHINGTON	DC (US)
STAR	CAVLR (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR	RAVNN (RNAV)		1	KBWI	BALTIMORE	MD (US)
STAR	RAVNN (RNAV)		1	KMTN	BALTIMORE	MD (US)
STAR	VUDOO (RNAV)			KADW	CAMP SPRINGS	MD (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, MILITARY STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: ADDED TRSTN (RNAV) AT 2W2.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TRSTN

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 380512.93N/0774623.88W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR	TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR	TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			W50	LAYTONSVILLE	MD (US)
STAR	TRSTN (RNAV)			2W2	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR	TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR	TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR	TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

- FIX USE: DELETED TRSTN (RNAV) AT KEZF, KNYG, KRMN.
- FIX USE: ADDED TRSTN (RNAV) AT 2W2.
- REQUIRED CHARTING: DELETED MILITARY STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Dec 05, 2024

QUALITY
35
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TWIRK

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393436.70N/0771244.75W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX RESTRICTIONS:

MCA T356 3700 SOUTHEAST BOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

EN ROUTE

T356

EN ROUTE

T358

STAR

TRSTN (RNAV)

KGAI

GAITHERSBURG

(US)

STAR

TRSTN (RNAV)

W50

LAYTONSVILLE

(US)

STAR

TRSTN (RNAV)

2W2

WESTMINSTER

MD (US)

STAR

TRSTN (RNAV)

KDMW

WESTMINSTER

MD (US)

MD (US)

MD (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 02/20/2025

REASON FOR REVISION:

- FIX USE: ADDED TRSTN (RNAV) TO FIX MAKE UP FOR KDMW, 2W2, W50, KGAI.

- REQUIRED CHARTING: ADDED STAR.

- DELETED AIRSPACE DOCKET NUMBER.

12/12/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/05/24.

1. REMARKS: DELETED ATC REQUESTED SECTIONAL CHARTING.

2. REQUIRED CHARTING: DELETED SECTIONAL.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: STEVEN DOUGHERTY

APPROVED BY:

DATE: 01/16/2025

OFFICE: AJV-A421

NAME: DAVID DANNER

SIGNATURE:

Digitally signed by
DONALD H LANIER

Dec 12, 2024

